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November 28, 2007



Recycling
& Recovery

Marine &
Industrial Cleaning

Recycled Products

Waste Treatment
& Disposal

Automotive Fluids
Management

Construction
Services

Transportation
Services

Vacuum Truck
Services

Portable Storage

EPA Region 10
Investigations and Engineering Unit (OEA-95)
1200 Sixth Avenue
Seattle WA 98101
Attn: Dan Duncan

RE: Emerald Recycling
Report of PCB Contamination and De-Contamination
Midas Muffler

Dear Mr. Duncan;

As I mentioned in my email to you dated October 15, 2007, the Emerald Recycling facility located at 1500 Airport Way S. in Seattle, Washington (Emerald) received a shipment of oil contaminated with polychlorinated biphenyls (PCBs). The load was received by Emerald on October 5, 2007. The contamination was discovered during routine PCB testing of bulked oil at the Emerald facility. The following is being provided as documentation of how the source of the contamination was determined, the decontamination procedures that were undertaken by Emerald, and the proper disposal of the contaminated oil as well as tank and equipment rinseates.

Testing by the Emerald laboratory showed PCBs detected in the Emerald tank of consolidated oil. Per standard procedure, once PCBs are detected in the tank, the generator retain samples for the tank are then tested. Internal testing by the Emerald laboratory showed that the retain from Midas Muffler, located at 12005 ND 12th St., Bellevue, Washington 98005 (Midas) had a significant concentration of PCBs. The Midas retain was sent out for third-party PCB testing by method 8082 at Test America. Test America reported a concentration of Arochlor 1242 at 93ppm in the retain from Midas.

Once proper disposal and transportation were arranged, Emerald pumped the contaminated oil out of the storage tank to a tanker truck. Contaminated equipment was washed with water and the storage tank and transport tank were decontaminated with diesel per the enclosed PCB Tank Decontamination and Sampling Plan. The waste diesel and wash water generated during the

USEPA REG



0001030

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decontamination process were consolidated with the original PCB-contaminated oil in the tanker truck. All liquids were shipped as TSCA regulated waste on manifest #000270569FLE to Clean Harbors (copy enclosed).

If you have any questions regarding this report, or need additional information, please feel free to contact me at the numbers below.

Sincerely,



Sheila Smith, Environmental Coordinator
Emerald Services, Inc.
(206) 832-3204 (Office)
(253) 370-7912 (Cell)
(206) 832-3304 (fax)
sheilas@emeraldncw.com

cc: APW Facility File

Enclosures: Emerald PCB Detection & Tracking Sheet
Test America Analytical Report
Emerald PCB Tank Decontamination and Sampling Plan
Emerald PCB Swabs Analysis Report
Manifest #000270569FLE with Certificate of Treatment/Disposal



Quality control data available upon request

-PCB Detection & Tracking-

Flow Chart, and analytical results for tracing source contamination of inbound waste oil.

Analytical Method used: EPA 8082 (prep method 3580)

Initial Contamination: Tank ID#:LS2

Date Sampled:10-5-07

Emerald Lab ID #: 071006.0B

PCB* results: Aroclor1242 3.0 ppm

Date Analyzed10-6-07

By: Leslie Embrey

Testing of trucks pumped into Contaminated Tank:

Truck # 765 Tylers Truck
Truck Joe's Truck

Emerald Lab ID #: 071006.0E-1
Emerald Lab ID #: 071006.0E-2

PCB results: Aroclor 1242 7.5ppm
PCB results: ND ppm

Date Analyzed10-6-07

By: Leslie Embrey

Testing of Individual Retain samples for the contaminated truck's route:

Emerald Lab ID #:071008.0F-1
PCB results: ND < 1.0ppm

Retain ID: Honda of Kirkland

BOL#:265126

Emerald Lab ID #:071008.0F-2
PCB results: ND < 1.0ppm

Retain ID: Eastside Subaru

BOL#:265127

Emerald Lab ID #:071008.0F-3
PCB results: ND < 1.0ppm

Retain ID: Toyota of Kirkland

BOL#:265128

Emerald Lab ID #:071008.0F-4
PCB results: ND < 1.0ppm

Retain ID: Klahanie Shell

BOL#:265129

Emerald Lab ID #:071008.0F-5
PCB results: ND < 1.0ppm

Retain ID: Lexus of Bellevue

BOL#:302847

Emerald Lab ID #:071008.0F-6
PCB results: ND < 1.0ppm

Retain ID:Formula 1

BOL#:302848

Emerald Lab ID #:071008.0F-7
PCB results: ND < 1.0ppm

Retain ID:Strictly BMW

BOL#:302849

Emerald Lab ID #:071008.0F-8
PCB results: Aroclor 1242 41 ppm

Retain ID:Midas Muffler

BOL#:302850

Contaminated Retain sample was sent to outside lab for PCB verification, per EMS.

* PCB's screened are Aroclors 1242/1248/1016/1232, Aroclor 1254, and Aroclor 1260

Analyst: Leslie Embrey **Date:**10-8-07 **Notes:**

The data on this form is to be used for verification only, and is not intended to be used for designation purposes under 40 CFR 261 or WAC 173-303

ANALYTICAL REPORT

Job Number: 580-7661-1

Job Description: PCB

For:

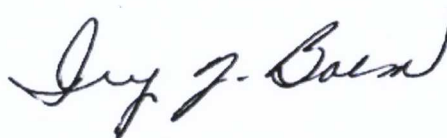
Emerald Services

9010 E Marginal Way S

Suite 200

Seattle, WA 98108

Attention: Leslie Embrey



Ivy J Bolm

Project Manager I

ivy.bolm@testamericainc.com

10/10/2007

TestAmerica Tacoma is a part of TestAmerica Laboratories, Inc.

This report is issued solely for the use of the person or company to whom it is addressed. Any use, copying or disclosure other than by the intended recipient is unauthorized. If you have received this report in error, please notify the sender immediately at 253-922-2310 and destroy this report immediately.

TestAmerica Laboratories, Inc.

TestAmerica Tacoma 5755 8th Street East, Tacoma, WA 98424

Tel (253) 922-2310 Fax (253) 922-5047 www.testamericainc.com



METHOD SUMMARY

Client: Emerald Services

Job Number: 580-7661-1

Description	Lab Location	Method	Preparation Method
Matrix: Waste			
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	TAL TAC	SW846 8082	
Waste Dilution	TAL TAC		SW846 3580A

Lab References:

TAL TAC = TestAmerica Tacoma

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: Emerald Services

Job Number: 580-7661-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
580-7661-1	071008-0F-8	Waste	10/08/2007 0000	10/08/2007 1500

Analytical Data

Client: Emerald Services

Job Number: 580-7661-1

Client Sample ID: 071008-0F-8

Lab Sample ID: 580-7661-1

Client Matrix: Waste

Date Sampled: 10/08/2007 0000

Date Received: 10/08/2007 1500

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082

Analysis Batch: 580-24218

Instrument ID: SEA034

Preparation: 3580A

Prep Batch: 580-24194

Lab File ID: PCB11879.D

Dilution: 10

Initial Weight/Volume: 0.2054 g

Date Analyzed: 10/09/2007 0920

Final Weight/Volume: 10 mL

Date Prepared: 10/08/2007 1527

Injection Volume:

Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
PCB-1016		ND		4.9
PCB-1221		ND		4.9
PCB-1232		ND		4.9
PCB-1242		93		4.9
PCB-1248		ND		4.9
PCB-1254		ND		4.9
PCB-1260		ND	*	4.9
Surrogate		%Rec		Acceptance Limits
Tetrachloro-m-xylene		91		45 - 155
DCB Decachlorobiphenyl		90		50 - 150

DATA REPORTING QUALIFIERS

Client: Emerald Services

Job Number: 580-7661-1

Lab Section	Qualifier	Description
GC Semi VOA	*	RPD of the LCS and LCSD exceeds the control limits

QUALITY CONTROL RESULTS

Quality Control Results

Client: Emerald Services

Job Number: 580-7661-1

Method Blank - Batch: 580-24194

Method: 8082
Preparation: 3580A

Lab Sample ID: MB 580-24194/1-A
Client Matrix: Waste
Dilution: 1.0
Date Analyzed: 10/09/2007 0634
Date Prepared: 10/08/2007 1527

Analysis Batch: 580-24218
Prep Batch: 580-24194
Units: mg/Kg

Instrument ID: SEA034
Lab File ID: PCB11872.D
Initial Weight/Volume: 0.2 g
Final Weight/Volume: 10 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result	Qual	RL
PCB-1016	ND		0.50
PCB-1221	ND		0.50
PCB-1232	ND		0.50
PCB-1242	ND		0.50
PCB-1248	ND		0.50
PCB-1254	ND		0.50
PCB-1260	ND		0.50

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	110	45 - 155
DCB Decachlorobiphenyl	92	50 - 150

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Emerald Services

Job Number: 580-7661-1

**Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 580-24194**

**Method: 8082
Preparation: 3580A**

LCS Lab Sample ID: LCS 580-24194/2-A
Client Matrix: Waste
Dilution: 1.0
Date Analyzed: 10/09/2007 0658
Date Prepared: 10/08/2007 1527

Analysis Batch: 580-24218
Prep Batch: 580-24194
Units: mg/Kg

Instrument ID: SEA034
Lab File ID: PCB11873.D
Initial Weight/Volume: 0.2 g
Final Weight/Volume: 10 mL
Injection Volume:
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 580-24194/3-A
Client Matrix: Waste
Dilution: 1.0
Date Analyzed: 10/09/2007 0721
Date Prepared: 10/08/2007 1527

Analysis Batch: 580-24218
Prep Batch: 580-24194
Units: mg/Kg

Instrument ID: SEA034
Lab File ID: PCB11874.D
Initial Weight/Volume: 0.2 g
Final Weight/Volume: 10 mL
Injection Volume:
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
PCB-1016	100	106	57 - 128	6	8		
PCB-1260	100	110	65 - 132	10	8		*
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
Tetrachloro-m-xylene	121		127		45 - 155		
DCB Decachlorobiphenyl	81		93		50 - 150		

Calculations are performed before rounding to avoid round-off errors in calculated results.



GENERATOR NAME: Emerald Healthcare

GENERATOR CONTACT: Leslie Embrey

GENERATOR PHONE NO: 206-832-3093

EMERALD CONTACT: _____

7661

TO: TEST America

PO# ER-11028

8263

10/10/2007

ANALYSIS REQUESTED							
CONFIRMING ANALYSIS ONLY: INFORMATION ATTACHED	CHARACTERIZE FOR DISPOSAL	IGNITABILITY CORROSIVITY REACTIVITY D001-D003	D-LISTED METALS BY TCLP D-004-D011	D-LISTED PESTICIDES AND HERBISIDES BY TCLP D-012-D017	D-LISTED ORGANICS D-019-D045	F-LISTED ORGANICS F001-F005	OTHER (PLEASE SPECIFY)

[illegible]

SIGNATURE	PRINTED NAME	COMPANY NAME	TIME / DATE	SPECIAL INSTRUCTIONS / COMMENTS
RELINQUISHED BY <i>Leslie Embrey</i>	Leslie Embrey	Emerald Recycling	10/6/12	15 00 hrs email results to
RECEIVED BY <i>Joseph Moon</i>	Joseph Moon	TAL-TACOMA	10/8/12	15 00 hrs leslee@emeraldrec.com
RELINQUISHED BY				ASAP.
RECEIVED BY				Thanks!!
RELINQUISHED BY				
RECEIVED BY				

WHITE • Laboratory

CANARY : Sales Administrator

PINK - Customer

Login Sample Receipt Check List

Client: Emerald Services

Job Number: 580-7661-1

Login Number: 7661

Creator: Moon, Joseph

List Number: 1

List Source: TestAmerica Tacoma

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Client delivered sample directly to lab
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

PCB TANK DECONTAMINATION AND SAMPLE PLAN

This PCB Tank Decontamination and Sample Plan (Plan) outlines the steps to be taken when decontaminating a tank that has contained TSCA contaminated oil. It may also be used to decontaminate a tank containing lower levels of PCB contamination.

The first step of decontamination is a thorough rinsing/flushing of the tank with diesel fuel (kerosene may also be used). The tank must be rinsed a minimum of three times. Each rinse must use a volume of diesel equivalent to approximately 10 percent of the container capacity.

Following the tank rinsing, swab samples must be taken of the tank interior and inlet and outlet piping. The attached diagram shows a typical tank shape. For swab sampling, the tank is divided into six sections: north wall, south wall, east wall, west wall, floor, and ceiling. For each section, a template of approximately 10cm x 10cm grid is used to identify sample locations. Take inlet/outlet swabs in a circular sweep of the tube. A gauze pad treated with hexane is used for swiping each point within the sample grid. Each swipe taken within a section is composited for PCB analysis. A total of 6 composite samples will be needed. However this number will increase to include any inlet and outlet piping.

The tank is considered to be decontaminated if all swipe sample results are below $10\mu\text{g}/100\text{cm}^2$. If any results are above $10\mu\text{g}/100\text{cm}^2$, the tank must be rinsed and re-swiped until all results are below the $10\mu\text{g}/100\text{cm}^2$ limit.



Analysis Report Form

Sample Identification: LS2 swabs

Contact Person: Bill DeNike

Seattle Lab ID#:071023.0K (1-6)

NOTE: All units are in ug/100cm2 unless otherwise specified

Parameter: PCB* wipe test

*Aroclors screened: Aroclors 1242/1248/1016/1232, Aroclor 1254 and Aroclor 1260

By Method 8082

Samples are run on a Hewlett Packard 5890 Gas Chromatograph

Project Description: PCB wipes for container #LS2 decon.

Sample	Results	MDL	Quality Control
			Surrogate recovery (decachlorobiphenol):
North Wall	ND	10.0 ug/100cm2	103%
South Wall	ND	10.0 ug/100cm2	107%
East Wall	ND	10.0 ug/100cm2	103%
West Wall	ND	10.0 ug/100cm2	108%
Overhead	ND	10.0 ug/100cm2	112%
Floor	ND	10.0 ug/100cm2	120%

Analyst: L. Embrey

Date:10-24-07

DI1647049

tank# 1602001

Lead # 37437

DI1647049

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

000270569ELE

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number WAD058367152	2. Page 1 of 1	3. Emergency Response Phone 1-800-424-9300	4. Manifest Tracking Number 000270569 FLE			
5. Generator's Name and Mailing Address EMERALD RECYCLING SERVICES 9010 E. MARGINAL WAY S. SEATTLE, WA 98108		Generator's Site Address (if different than mailing address) EMERALD RECYCLING SERVICES 1500 AIRPORT WAY S SEATTLE, WA 98134						
Generator's Phone: (206) 832-3090		6. Transporter 1 Company Name JJ Williams				U.S. EPA ID Number WAD117356386		
7. Transporter 2 Company Name EMERALD SERVICES, INC.						U.S. EPA ID Number WAD058364647		
8. Designated Facility Name and Site Address CLEAN HARBORS (ARAGONITE), LLC 11600 N. APTUS ROAD, EXIT 56 ARAGONITE, UT 84029		Facility's Phone: (801) 323-8100				U.S. EPA ID Number UTD981552177		
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	X	1. NA3082, RQ, Hazardous waste, liquid, 1.0.s. (LEAD, POLYCHLORINATED BIPHENYLS), 9, PG-III, RQ-X, ERG#171		1	TT	25,324	K	D008, TSCA
14. Special Handling Instructions and Additional Information a) CH144002B USED OIL CONTAMINATED								
REPORT ANY 'RQ' DISCHARGE TO NATIONAL RESPONSE CENTER 800-424-8802, AND 911 EMERGENCY NUMBER OR LOCAL OPERATOR. EMERGENCY CONTACT: JON SKINNER (206) 832-3090								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offor's Printed/Typed Name William K Denike		Signature 		Month 10		Day 23		Year 07
16. International Shipments	<input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials								
Transporter 1 Printed/Typed Name Danny Johnson		Signature 		Month 10		Day 23		Year 07
Transporter 2 Printed/Typed Name		Signature		Month		Day		Year
18. Discrepancy								
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection								
Manifest Reference Number: _____								
18b. Alternate Facility (or Generator) _____ U.S. EPA ID Number _____								
Facility's Phone: _____								
18c. Signature of Alternate Facility (or Generator) _____ Month _____ Day _____ Year _____								
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. H340		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name Mandy Hervey		Signature 		Month 10		Day 25		Year 07



LDR NOTIFICATION FORM

Generator EMERALD RECYCLING

Manifest 000270569FLE

Pursuant to 40 CFR §268.7(a), I hereby notify that this shipment contains waste restricted under 40 CFR Part 268 Land Disposal Restrictions (LDR).

A. GENERAL WASTE NOTIFICATION

Form Line No.	Profile No.	EPA/WA Waste Codes & LDR Subcategories (if any) <i>List codes or use Attachment 1</i>	NWW	WW	Waste Constituent Notification <i>Check the "None" box or List Legend Constituent # or use</i>
1	CH144002	<u>D001, D008, TSCA</u> <input type="checkbox"/> Check if Attachment 1 has been used	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> None <input type="checkbox"/> Check if Attachment 2 has been used
2	CH150552	<u>D008, TSCA</u> <input type="checkbox"/> Check if Attachment 1 has been used	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> None <input type="checkbox"/> Check if Attachment 2 has been used
3		 <input type="checkbox"/> Check if Attachment 1 has been used	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> None <input checked="" type="checkbox"/> Check if Attachment 2 has been used
4		 <input type="checkbox"/> Check if Attachment 1 has been used	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> None <input type="checkbox"/> Check if Attachment 2 has been used
5		 <input type="checkbox"/> Check if Attachment 1 has been used	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> None <input type="checkbox"/> Check if Attachment 2 has been used
6		 <input type="checkbox"/> Check if Attachment 1 has been used		<input type="checkbox"/>	<input type="checkbox"/> None <input type="checkbox"/> Check if Attachment 2 has been used

B. HAZARDOUS DEBRIS NOTIFICATION

☐ This hazardous debris, as identified above on Line No(s). _____ is subject to the alternative treatment standards of 40 CFR §268.45.

The waste contains the following contaminants subject to treatment (check all that apply):

☐ Toxicity characteristic debris ☐ Debris contaminated with listed waste ☐ Cyanide reactive debris

C. CONTAMINATED SOIL NOTIFICATION & CERTIFICATION

☐ This contaminated soil, as identified above on Line No(s). _____ is subject to the alternative treatment standards of 40 CFR §268.49(c).

Complete the following: "I certify under penalty of law that I personally have examined this contaminated soil & it ☐ does / ☐ does not contain listed hazardous waste & ☐ does / ☐ does not exhibit a characteristic of hazardous waste & ☐ is subject to / ☐ complies with soil treatment standards as provided by §268.49(c) or the universal treatment standards". Note: Constituents subject to treatment are any constituents listed in 40 CFR §268.48 Universal Treatment Standards that are reasonably expected to be present in any given volume of contaminated soil, except fluoride, selenium, sulfides, vanadium & zinc, & are present at concentrations greater than ten times the universal treatment standard.

D. LAB PACK (INCINERATION) NOTIFICATION & CERTIFICATION

☐ This lab pack, as identified above on Line No(s). _____ is subject to the alternative treatment standards of 40 CFR §268.42(c).

"I certify under penalty of law that I personally have examined & am familiar with the waste & that the lab pack contains only wastes that have not been excluded under Appendix IV to 40 CFR Part 268 & that this lab pack will be sent to a combustion facility in compliance with the alternative treatment standards for lab packs at 40 CFR §268.42(c). I am aware that there are significant penalties for submitting a false certification, including the possibility of fine or imprisonment".

E. EXTENSIONS & VARIANCES

☐ This waste, as identified above on Line No(s). _____ is not prohibited from land disposal & is subject to a deadline extension or variance, e.g., treatability variance, case-by-case extension. Describe below any extension or variance that applies to this waste & include applicable dates:

Generator's Authorized Signature

William K. Denike Production Mgr.
Name & Title (Printed or Typed)

10/23/01
Date

LDR ATTACHMENT 1: EPA WASTE CODE LISTING

Note: If this form is necessary for notification purpose, it must be used in conjunction with the Notification form and/or Certification form.

Generator		Manifest									
Line #'s	EPA Code	Line #'s	EPA Code	Line #'s	EPA Code	Line #'s	EPA Code	Line #'s	EPA Code	Line #'s	EPA Code
"D" Characteristic Codes											
D001 ICW	D004	D009 HM (Organic)	D017	D026	D035						
D001 LQ (≥10% TOC)	D005	D009 HM (Inorganic)	D018	D027	D036						
D002	D006	D010	D019	D028	D037						
D003 EX	D006 CB	D011	D020	D029	D038						
D003 OR	D007	D012	D021	D030	D039						
D003 RC	D008	D013	D022	D031	D040						
D003 RS	D008 LB	D014	D023	D032	D041						
D003 UO	D009 LM-NRR	D015	D024	D033	D042						
D003 WR	D009 LM-RR	D016	D025	D034	D043						
"F" Listed Codes											
F001	F006	F011	F022	F027	F037						
F002	F007	F012	F023	F028	F038						
F003	F008	F019	F024	F032	F039						
F004	F009	F020	F025	F034							
F005	F010	F021	F026	F035							
"K" Listed Codes											
K001	K022	K043	K086	K109	K144						
K002	K023	K044	K087	K110	K145						
K003	K024	K045	K088	K111	K147						
K004	K025	K046	K093	K112	K148						
K005	K026	K047	K094	K113	K149						
K006 AN	K027	K048	K095	K114	K150						
K006 HY	K028	K049	K096	K115	K151						
K007	K029	K050	K097	K116	K156						
K008	K030	K051	K098	K117	K157						
K009	K031	K052	K099	K118	K158						
K010	K032	K060	K100	K123	K159						
K011	K033	K061	K101	K124	K161						
K013	K034	K062	K102	K125	K169						
K014	K035	K069 CS	K103	K126	K170						
K015	K036	K069 NCS	K104	K131	K171						
K016	K037	K071 RR	K105	K132	K172						
K017	K038	K071 NRR	K106 LM-RR	K136							
K018	K039	K073	K106 LM-NRR	K140							
K019	K040	K083	K106 HM	K141							
K020	K041	K084	K107	K142							
K021	K042	K085	K108	K143							
"P" Listed Codes											
P001	P012	P024	P038	P049	P064						
P002	P013	P026	P039	P050	P065 NIRR						
P003	P014	P027	P040	P051	P065 LM-IR						
P004	P015	P028	P041	P054	P065 LM-RR						
P005	P016	P029	P042	P056	P065 HM-IRR						
P006	P017	P030	P043	P057	P066						
P007	P018	P031	P044	P058	P067						
P008	P020	P033	P045	P059	P068						
P009	P021	P034	P046	P060	P069						
P010	P022	P036	P047	P062	P070						
P011	P023	P037	P048	P063	P071						

Note: The Line #'s are from the Notification Form, not the hazardous waste manifest.

LDR ATTACHMENT 1: EPA WASTE CODE LISTING - PAGE 2 MANIFEST NO.:

Line #'s	EPA Code	Line #'s	EPA Code	Line #'s	EPA Code	Line #'s	EPA Code	Line #'s	EPA Code	Line #'s	EPA Code
	P072		P087		P097		P110		P122		P196
	P073		P088		P098		P111		P123		P197
	P074		P089		P099		P112		P127		P198
	P075		P092 NIRR		P101		P113		P128		P199
	P076		P092 LM-		P102		P114		P185		P201
	P077		P092 LM-RR		P103		P115		P188		P202
	P078		P092 HM-IRR		P104		P116		P189		P203
	P081		P093		P105		P118		P190		P204
	P082		P094		P106		P119		P191		P205
	P084		P095		P108		P120		P192		
	P085		P096		P109		P121		P194		
"U" Listed Codes											
	U001		U045		U089		U133		U174		U221
	U002		U046		U090		U134		U176		U222
	U003		U047		U091		U135		U177		U223
	U004		U048		U092		U136		U178		U225
	U005		U049		U093		U137		U179		U226
	U006		U050		U094		U138		U180		U227
	U007		U051		U095		U140		U181		U228
	U008		U052		U096		U141		U182		U234
	U009		U053		U097		U142		U183		U235
	U010		U055		U098		U143		U184		U236
	U011		U056		U099		U144		U185		U237
	U012		U057		U101		U145		U186		U238
	U014		U058		U102		U146		U187		U239
	U015		U059		U103		U147		U188		U240 (2,4-D)
											U240 (2,4-D
	U016		U060		U105		U148		U189		Salts)
	U017		U061		U106		U149		U190		U243
	U018		U062		U107		U150		U191		U244
							U151 LM-				
	U019		U063		U108		NRR		U192		U246
							U151 LM-				
	U020		U064		U109		RR		U193		U247
	U021		U066		U110		U151 HM		U194		U248
	U022		U067		U111		U152		U196		U249
	U023		U068		U112		U153		U197		U271
	U024		U069		U113		U154		U200		U278
	U025		U070		U114		U155		U201		U279
	U026		U071		U115		U156		U202		U280
	U027		U072		U116		U157		U203		U328
	U028		U073		U117		U158		U204		U353
	U029		U074		U118		U159		U205		U359
	U030		U075		U119		U160		U206		U364
	U031		U076		U120		U161		U207		U367
	U032		U077		U121		U162		U208		U372
	U033		U078		U122		U163		U209		U373
	U034		U079		U123		U164		U210		U387
	U035		U080		U124		U165		U211		U389
	U036		U081		U125		U166		U213		U394
	U037		U082		U126		U167		U214		U395
	U038		U083		U127		U168		U215		U404
	U039		U084		U128		U169		U216		U408
	U041		U085		U129		U170		U217		U409
	U042		U086		U130		U171		U218		U410
	U043		U087		U131		U172		U219		U411
	U044		U088		U132		U173		U220		

Note: The Line #'s are from the Notification Form, not the hazardous waste manifest.

LDR ATTACHMENT 2: WASTE CONSTITUENT NOTIFICATION

Note: If this form is necessary for notification purposes, it must be used in conjunction with the Notification form and/or Certification form.

Generator _____			Manifest _____		
LDR Inorganic Constituents (40 CFR §268.48)					
Line #'s	Constituent	Legend #	Line #'s	Constituent	Legend #
	Antimony	246		Cyanides (Total)	252
	Arsenic	247		Cyanides (Amenable)	253
	Barium	248		Fluoride ¹	254
	Beryllium	249		Lead	255
	Cadmium	250		Mercury - NW from Retort	256
	Chromium (Total)	251		Mercury - All others	257
				Nickel	258
				Selenium ¹	259
				Silver	260
				Sulfide ¹	261
				Thallium	262
				Vanadium ¹	263
LDR Organic Constituents (40 CFR §268.48)					
Line #'s	Constituent	Legend #	Line #'s	Constituent	Legend #
	Acenaphthene	49		2-sec-Butyl-4,6- dinitrophenol (Dinoseb)	79
	Acenaphthylene	50		Carbaryl *	270
	Acetone	51		Carbenzadim *	271
	Acetonitrile	52		Carbofuran *	272
	Acetophenone	53		Carbofuran phenol *	273
	2-Acetylaminofluorene	54		Carbon disulfide	80
	Acrolein	55		Carbon tetrachloride	81
	Acrylamide *	56		Carbosulfan *	274
	Acrylonitrile	57		Chlordane (alpha & gamma isomers)	82
	Aldicarb sulfone *	265		p-Chloroaniline	83
	Aldrin	58		Chlorobenzene	84
	4-Aminobiphenyl	59		Chlorobenzilate	85
	Aniline	60		2-Chloro-1,3-butadiene	86
	Anthracene	61		Chlorodibromomethane	87
	Aramite	62		Chloroethane	88
	Barban *	266		bis(2- Chloroethoxy) methane	89
	Bendiocarb *	267		bis(2-Chloroethyl)ether	90
	Benomyl *	268		2-Chloroethyl vinyl ether *	94
	Benz(a)anthracene	68		Chloroform	91
	Benzal chloride *	69		bis(2-Chloroisopropyl)ether	92
	Benzene	67		p-Chloro-m-cresol	93
	Benzo(b)fluoranthene	70		Chloromethane (Methyl chloride)	95
	Benzo(k) fluoranthene	71		2-Chloronaphthalene	96
	Benzo(g,h,i) fluoranthene	72		2-Chlorophenol	97
	Benzo(a)pyrene	73		3-Chloropropylene	98
	alpha-BHC	63		Chrysene	99
	beta-BHC	64		o-Cresol	100
	delta-BHC	65		m-Cresol	101
	gamma-BHC	66		p-Cresol	102
	Bromodichloromethane	74		m-Cumenyl methylcarbamate *	275
	Bromomethane (Methyl bromide)	75		Cyclohexanone	103
	4-Bromophenyl phenyl ether	76		o,p'-DDD	108
	n-Butyl alcohol	77		p,p'-DDD	109
	Butyl benzyl phthalate	78		o,p'-DDE	110
	Butylate *	269		p,p'-DDE	111
				o,p'-DDT	112
				p,p'-DDT	113
				Dibenz(a,h)anthracene	114
				Dibenz(a,e)pyrene	115
				1,2-Dibromo-3-chloropropane	104
				1,2-Dibromoethane (Ethylene dibromide)	105
				Dibromomethane	106
				m-Dichlorobenzene	116
				o-Dichlorobenzene	117
				p-Dichlorobenzene	118
				Dichlorodifluoromethane	119
				1,1-Dichloroethane	120
				1,2-Dichloroethane	121
				1,1-Dichloroethylene	122
				trans-1,2-Dichloroethylene	123
				2,4-Dichlorophenol	124
				2,6-Dichlorophenol	125
				2,4-D (2,4-Dichlorophenoxy-acetic acid)	107
				1,2-Dichloropropane	126
				cis-1,3-Dichloropropylene	127
				trans-1,3-Dichloropropylene	128
				Dieldrin	129
				Diethyl phthalate	130
				p-Dimethylaminoazobenzene *	140
				2,4-Dimethyl phenol	131
				Dimethyl phthalate	132
				Di-n-butyl phthalate	133
				1,4-Dinitrobenzene	134
				4,6-Dinitro-o-cresol	135
				2,4-Dinitrophenol	136
				2,4-Dinitrotoluene	137
				2,6-Dinitrotoluene	138
				Di-n-octyl phthalate	139
				Di-n-propylnitrosamine	141
				1,4-Dioxane	142

¹ Regulated under F039 only; not a UHC

* Constituent not regulated under F039

Note: Line #'s are from the Notification Form, not the hazardous waste manifest.

LDR ATTACHMENT 2: WASTE CONSTITUENT NOTIFICATION - PAGE 2 MANIFEST NO.:

Line #'s	Constituent	Legend #	Line #'s	Constituent	Legend #	Line #'s	Constituent	Legend #
	Diphenylamine	143		Methyl ethyl ketone	184		Physostigmine salicylate *	287
	Diphenylnitrosamine	144		Methyl isobutyl ketone	185		Promecarb *	288
	1,2-Diphenylhydrazine	145		Methyl methacrylate	186		Pronamide *	218
	Disulfoton	146		Methyl methansulfonate	187		Propham *	289
	Dithiocarbamates (total) *	276		Methyl parathion	188		Propoxur *	290
	Endosulfan I	147		3-Methylcholanthrene	181		Prosulfocarb *	291
	Endosulfan II	148		4,4-Methylene bis(2-chloro-aniline)	182		Pyrene	219
	Endosulfan sulfate	149		Methylene chloride	183		Pyridine	220
	Endrin	150		Metolcarb *	281		Safrole	221
	Endrin aldehyde	151		Mexacarbate *	282		Silvex (2,4,5-TP)	222
	EPTC	277		Molinate *	283		TCDDs (All Tetrachloro-dibenzo-p-dioxins)	225
	2-Ethoxyethanol **	32		Naphthalene	189		TCDFs (All Tetrachloro-dibenzofurans)	226
	Ethyl acetate	152		2-Naphthylamine	190		1,2,4,5-Tetrachlorobenzene	224
	Ethyl benzene	154		o-Nitroaniline *	191		1,1,1,2-Tetrachloroethane	227
	Ethyl cyanide	153		p-Nitroaniline	192		1,1,2,2-Tetrachloroethane	228
	Ethyl ether	155		Nitrobenzene	193		Tetrachloroethylene	229
	Ethyl methacrylate	157		5-Nitro-o-toluidine	194		2,3,4,6-Tetrachlorophenol	230
	Ethylene oxide	158		o-Nitrophenol *	195		Thiodicarb *	292
	bis(2-Ethylhexyl) phthalate	156		p-Nitrophenol	196		Thiophanate-methyl *	293
	Famphur	159		2-Nitropropane **	33		Toluene	231
	Fluoranthene	160		N-Nitrosodiethylamine	197		Toxaphene	232
	Fluorene	161		N-Nitrosodimethylamine	198		Triallate *	294
	Formetanate hydrochloride *	278		N-Nitroso-di-n-butylamine	199		Tribromomethane (Bromoform)	233
	Heptachlor	162		N-Nitrosomethylethylamine	200		2,4,6-Tribromophenol	295
	Heptachlor epoxide	163		N-Nitrosomorpholine	201		1,2,4-Trichlorobenzene	234
	Hexachlorobenzene	164		N-Nitrosopiperidine	202		1,1,1-Trichloroethane	235
	Hexachlorobutadiene	165		N-Nitrosopyrrolidine	203		1,1,2-Trichloroethane	236
	Hexachlorocyclopentadiene	166		Oxamyl *	284		Trichloroethylene	237
	Hexachloroethane	169		Parathion	204		Trichloromonofluoromethane	238
	Hexachloropropylene	170		Total PCBs	205		2,4,5-Trichlorophenol	239
	HxCDDs (All Hexachloro-dibenzo-p-dioxins)	167		Pebulate *	285		2,4,6-Trichlorophenol	240
	HxCDFs (All Hexachloro-dibenzofurans)	168		Pentachlorobenzene	206		2,4,5-T (2,4,5-Trichloro-nhenoxvaccetic acid)	223
	Indeno (1,2,3-c,d) pyrene	171		PeCDDs (All Pentachloro-dibenzo-p-dioxins)	207		1,2,3-Trichloropropane	241
	Iodomethane	172		PeCDFs (All Pentachloro-dibenzofurans)	208		1,1,2-Trichloro-1,2,2-trifluoroethane	242
	Isobutyl alcohol	173		Pentachloroethane *	209		Triethylamine *	296
	Isodrin	174		Pentachloronitrobenzene	210		tris-(2,3-Dibromopropyl)	243
	Isosafrole	175		Pentachlorophenol	211		Vernolate *	297
	Kepone	176		Phenacetin	212		Vinyl chloride	244
	Methacrylonitrile	177		Phenanthrene	213		Xylenes- mixed isomers	245
	Methanol	178		Phenol	214			
	Methapyrilene	179		Phorate	215			
	Methiocarb *	279		Phthalic acid *	216			
	Methomyl *	280		Phthalic anhydride	217			
	Methoxychlor	180		Physostigmine *	286			

* Constituent not regulated under F039.

** F005 wastes containing no other F001-F005 solvents

Note: Line #'s are from the Notification Form, not the hazardous waste manifest



Waste Tracking Report

November 28, 2007

Page 1

CLHB Generator Id: EM9274 Emerald Recycling Services Seattle, WA 98134

EPA ID: WAD058367152 **Manifest Dates:** 10/01/07 to 11/27/07

CLHB Receiving Facility: Aragonite, UT Facility

State Mnfst. Doc. No: 000270569FLE
Work Order: DI1647049

Mnfst. Doc No:
Job Type: Bulk Shipment

Gen Sign Date: 10/23/07

Date Recvd: 10/25/07

Line: 1	Profile No:	CH144002B	Manifested Cntnrs:	1 TT	Total Qty:	25,324 K	Activity Date	Mgt Method Code
Drum No	Code	Qty	UOM	Disposal Site	Manifest Out			
14453258	DH3	55,640	LBS	Incinerated			10/28/07	H040



Certificate of Treatment/Disposal - Storage and Transfer

November 28, 2007

Page 2

Aragonite, UT Facility
11600 North Aptus Road
Grantsville, UT 84029
UTD981552177

Manifest No.	Recv. Date
000270569FLE	10/25/07

The above described waste, received at the Clean Harbors facility listed above pursuant to the manifest(s) listed above, has been treated and/or disposed of by Clean Harbors, or another licensed facility approved by Clean Harbors, in accordance with applicable federal and state laws and regulations. Any waste received by Clean Harbors and subsequently shipped to another licensed facility has been or shall be identified as being generated by Clean Harbors in accordance with 40CFR 264.71(c).

Under civil and criminal penalties of law for the making of submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Signed: Paul A. Mello
Title: Senior Tracking Manager

Date: 11/28/2007